

Order No. MAC0112071C1
E9

Room Air Conditioner
CW-C100VU / CW-C120VU



SPECIFICATIONS

Specification

Model	CW-C100VU	CW-C120VU
Phase	Single	Single
Voltage	115 V	115 V
Frequency	60 Hz	60 Hz
Cooling Capacity	2.93 kW	3.37 kW
	10,000 Btu/h	11,500 Btu/h
Running Current	8.7 A	9.8 A
Input Power	980 W	1.12 kW
EER	10.2 Btu/hW	10.2 Btu/hW
Starting Current	35 A	48 A
Compressor Output	700 W	750 W
Fan Motor Output	45 W	45 W
Noise Level	Indoor (High / Low):	Indoor (High / Low):
	50 / 46 dB(A)	51 / 47 dB(A)
	Outdoor (High / Low):	Outdoor (High / Low):
	57 / 54 dB(A)	58 / 55 dB(A)
Moisture Removal	1.2 Ltr/h	1.4 Ltr/h
	2.5 Pint/h	3.0 Pint/h
Air Circulation	9.1 m3/min.	9.3 m3/min.
	320 Ft3/min.	330 Ft3/min.
Dimensions	Height: 375 mm	Height: 375 mm
	(14-25/32 inches)	(14-25/32 inches)
	Width: 560 mm	Width: 560 mm
	(22-1/16 inches)	(22-1/16 inches)
	Depth: 606 mm	Depth: 606 mm
	(23-27/32 inches)	(23-27/32 inches)
Net Weight	35 kg	35 kg
	77 lb	77 lb
Gross Weight	39 kg	39 kg
	86 lb	86 lb
Refrigerant (R-22)	450 g	550 g
	15.9 oz	19.4 oz

Note: Specifications are subject to change without notice for further improvement.

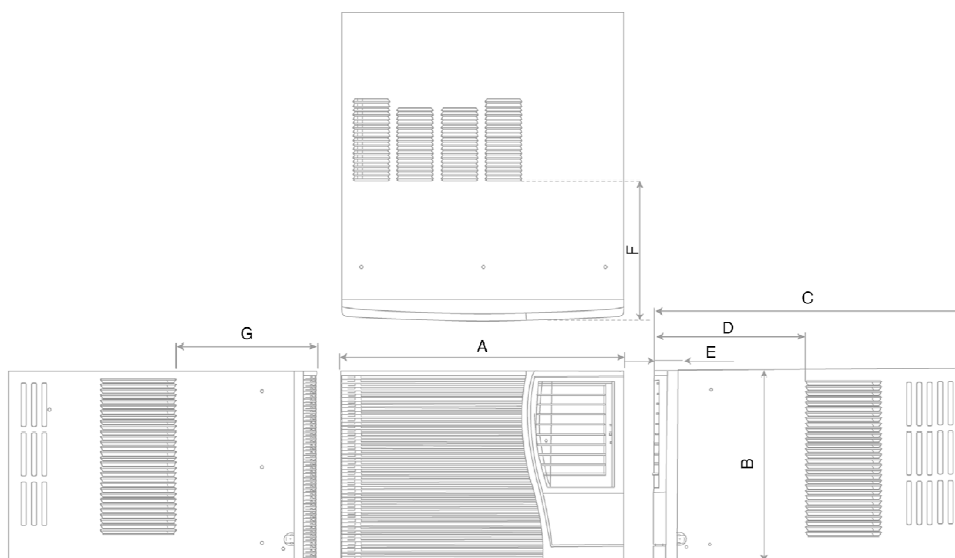
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1. Dimensions

1.1. CW-C100VU, CW-C120VU

1.1.1. Top View, Front View & Side View

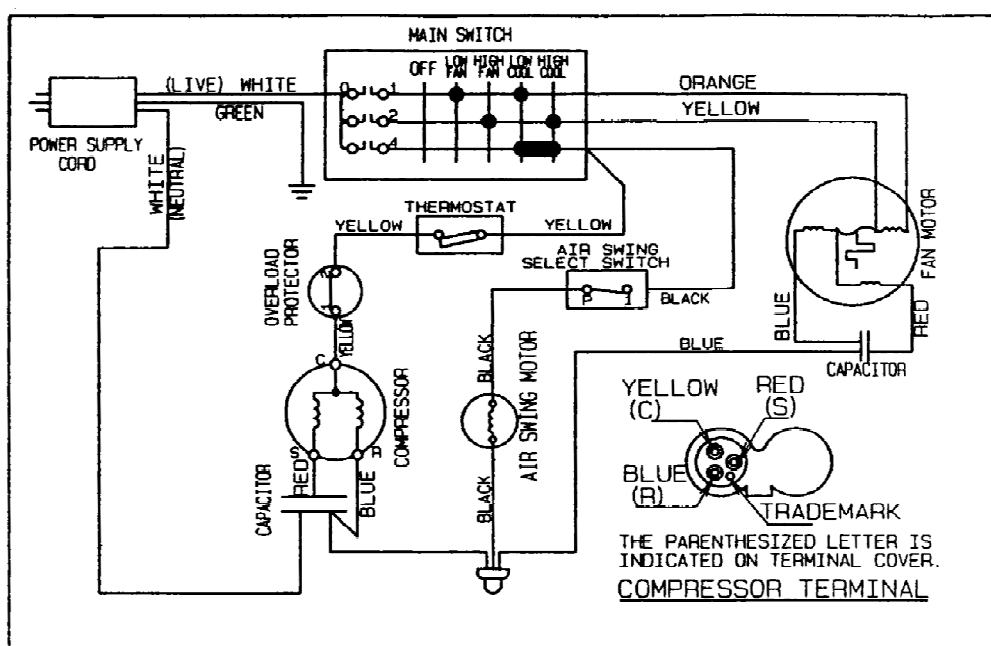


1.2. Unit

Item	Unit: Inch (mm)
A - Width	22-1/16" (560)
B - Height	14-25/32" (375)
C - Depth	23-27/32" (606)
D	11-9/16" (294)
E	1-13/16" (46)
F	11-3/32" (281.6)
G	11-3/32" (281.6)

2. Wiring Diagram

2.1. CW-C100VU & CW-C120VU.



2.2. Resistance of Fan Motor windings and the rated Capacitor.

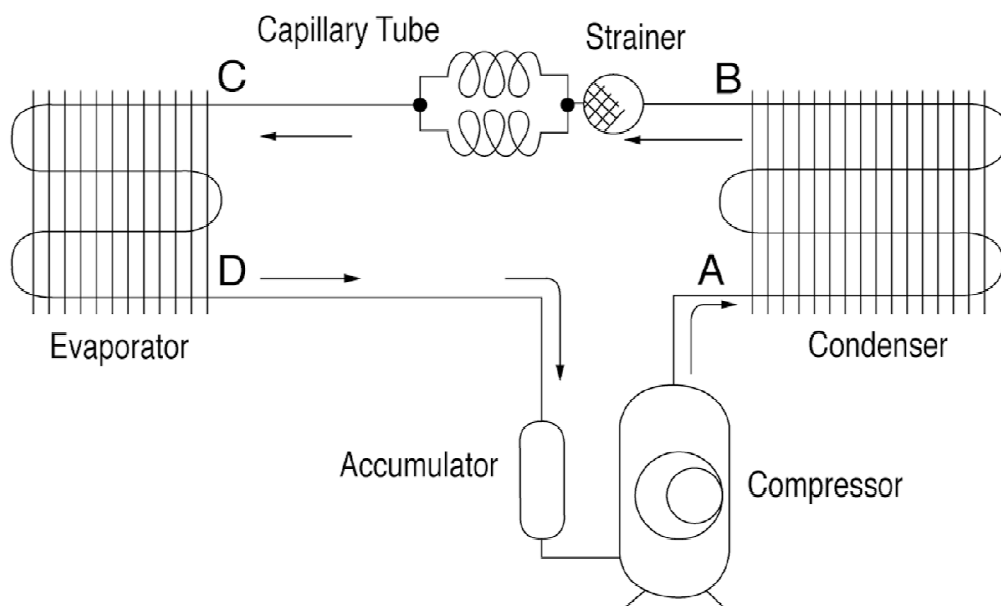
Model	CW-C100VU & CW-C120VU
Connection	CWA951176
Blue - Yellow	36.7 Ω
Yellow - Orange	14.6 Ω
Red - Yellow	36.0 Ω
Capacitor	CWA31371 (10 μ F, 230VAC)

2.3. Resistance of Compressor windings and the rated Capacitor.

Model	CW-C100VU	CW-C120VU
Connection	2P15C3R126B-SA	2P17C3R126B-SA
C-R	0.724 Ω	0.690 Ω
C-S	2.168 Ω	2.429 Ω
Capacitor	F0GAF406A001 (40 μ F, 250VAC)	F0GAF456A001 (45 μ F, 250VAC)

Note: Resistance at 68°F of Ambient Temperature.

3. Refrigeration Cycle Diagram



3.1. CW-C100VU

Item	Pressure (PSI)	Temperature (°F)
A	278.47 ~ 285.72	150 ~ 158
B	274.12 ~ 281.37	97 ~ 105
C	84.02 ~ 94.27	50 ~ 58
D	81.22 ~ 88.47	51 ~ 59

Note: Indoor temperature at 80°F (DB), 67°F (WB) and Outdoor at 95°F (DB), 75°F (WB).

3.2. CW-C120VU

Item	Pressure (PSI)	Temperature (°F)
A	285.72 ~ 292.98	156 ~ 164
B	281.37 ~ 288.63	100 ~ 108
C	82.67 ~ 89.92	46 ~ 54
D	76.87 ~ 84.12	50 ~ 58

Note: Indoor temperature at 80°F (DB), 67°F (WB) and Outdoor at 95°F (DB), 75°F (WB).

4. Air Conditioner Performance Evaluation

Intake & Discharge Air Temperature Difference	Current Drain	Determination	Remedy
-8°C and over (14.4°F)	-As specified.	-Nothing wrong.	-None.
-8°C and over (14.4°F)	-Higher than specified.	-Nothing wrong, outdoor temperature is too high, heat radiation is not efficient.	-Improve heat radiation.
-Under 8°C (14.4°F)	-Higher than specified.	-Something is preventing heat radiation.	-Excessive amount of refrigerant -Improve heat radiation.
-Under 8°C (14.4°F)	-Lower than specified.	-Leakage of refrigerant or refrigerant system is blocked.	-Locate and repair leak. -Flush refrigeration cycle.
-Under 8°C (14.4°F)	-Higher than specified by 50%.	-Compressor defect.	-Replace the compressor.

Note: Room air humidity is relatively higher, the temperature difference will be smaller.

5. Troubleshooting Guide

Warning: Disconnect unit from electrical power supply before making any electrical checks.

Trouble	Check	Result	Cause	Remedy
Fan Motor and Compressor won't run.	-Supply Voltage -Fuse Box or Circuit Breaker. -Power cord or Wiring Harness. -Temp. Setting.	-Less than 10% by Rated. -Open Contacts. -Pulled loose or Shorted. -Higher than ROOM TEMP.	-Customer Restarted unit immediately without waiting 3 minutes.	-Consult ELECTRICIAN -Repair Open Circuit. -WAIT FOR 3 MINUTE -Repair or Replace it. -Set it LOWER.
Fan Motor won't run.	-Objects around Fan. -RESISTANCE between Wires. -Capacitor Fan Motor.	-Locked Fan. -Shorted/ Open circuit. -OHM Meter doesn't Deflect.	-Fan Hitting Cowling or -Foreign Materials. -Frozen Bearings. -Shorted or Burned out. -Capacitor Defect.	-Adjust Fan position : screw. -Remove Foreign Material -Replace Fan Motor. -Replace Fan Motor. -Replace Capacitor Fan Motor.
Compressor won't run (Fan Runs).	-Temp. setting. -RESISTANCE between Terminal and the Compressor Body. -RESISTANCE between Terminals. -Capacitor Compressor. -Overload Protector.	-Higher than room temperature. -Shorted. -Shorted. -OHM Meter doesn't deflect. -Infinity between Terminals.	-Winding Coil touched to the Body. -Rare Shorted or Burnt out. -Capacitor defect. -Overload Protector defect.	-Set it lower. -Replace Compressor -Replace Compressor -Replace Capacitor Compressor. -Replace Overload Protector.

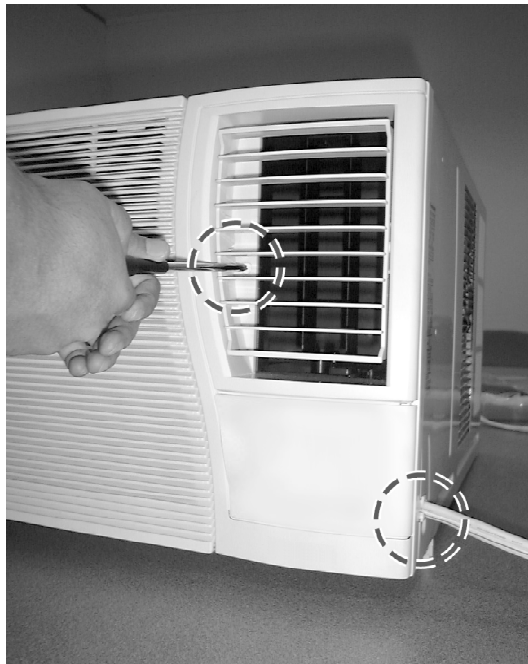
Trouble	Check	Result	Cause	Remedy
Insufficient cooling.	-Temp. Setting. -Ventilation Door open. -Air filter dirty. -Location of installation. -Evaporator/Condenser Coil obstructed. -Unit capacity for the room too small. -Temp difference and running current.	-Higher than room temperature. -Open -Clogged or dirty. -Sunlight hitting outdoor side. -Obstacles. -Clogged or dirty. -Not satisfied. -REFER PERFORMANCE EVALUATION.	-Reduce capacity. -Restricted air circulation. -Restricted Heat Exchanger. -Restricted Heat Exchanger. -Restricted air circulation -Leakage of refrigerant or refrigeration system is blocked.	-Set it lower. -Close Vent door. -Clean or Replace Air -Consider building an -Remove obstacles o unit. -Clean using steam c -Replace the unit with one. -Locate repair leak. -Flush refrigeration c
Noise.	-Source of Noise	-Vibration. -Intermittent Noise.	-Faulty installation. -Fan hitting objects. -Refrigerant tubing touching each other. -Fan splashing Drain Water.	-Reinstall unit or Reir installation. -Adjust Fan position i foreign materials. -About 1/2" Clearance -Remove drain plug a a drain pan to remove -Set the Drain outlet downward, so that the water can run off.
Water dripping inside room.	-Unit installation. -Drain Tray- STYROFOAM pieces blocking Drain Channel.	-Tilted to inside room. -Clogged.	-Restricted run off. -Clogged or blocked.	-Tilt unit to outside sl -Remove the foreign i

6. Operating Instructions

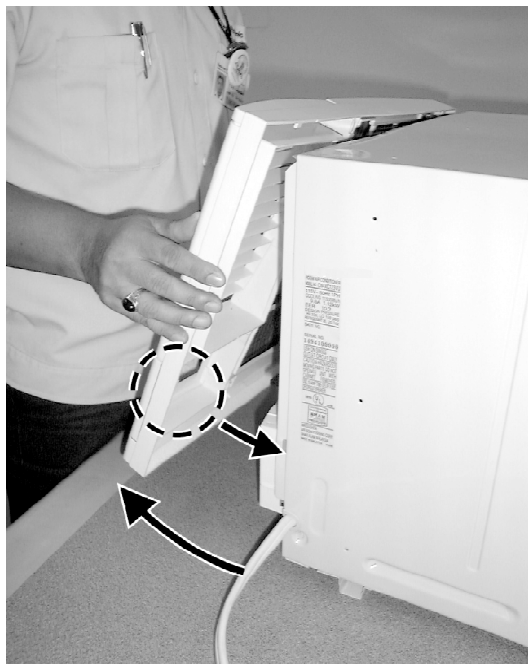
7. Service Information

7.1. Control Board Removal Procedure

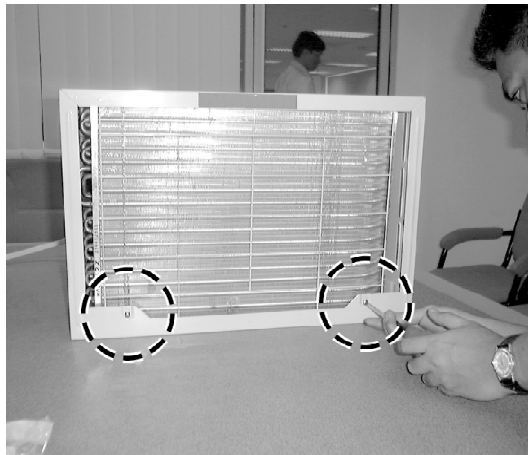
1. Remove the screws at the front and both sides of the chassis as shown below:



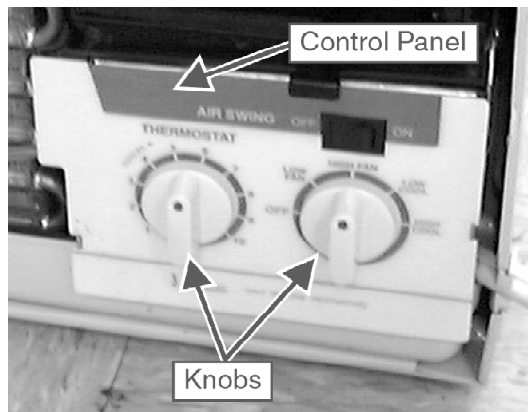
2. Release the tabs at both sides of the chassis (dotted circle) and then pull out the chassis as direction shown (arrow).



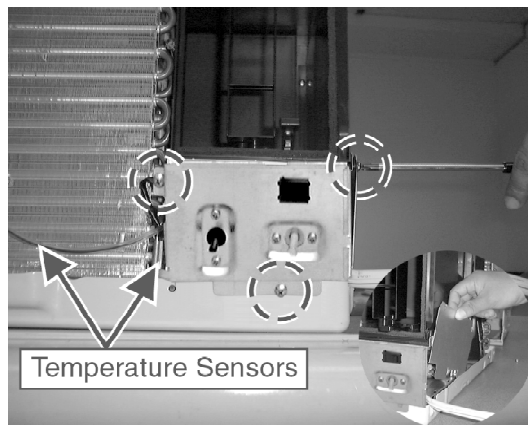
3. Remove two screws at the back of the chassis.



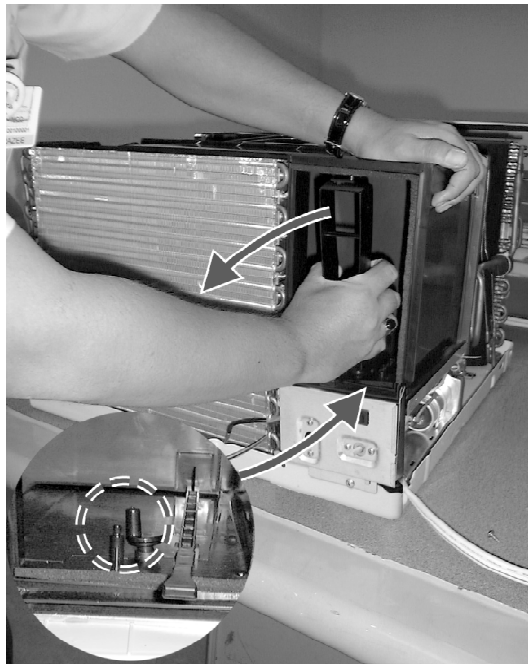
4. Remove the the 2 knobs and take off the Control Panel.



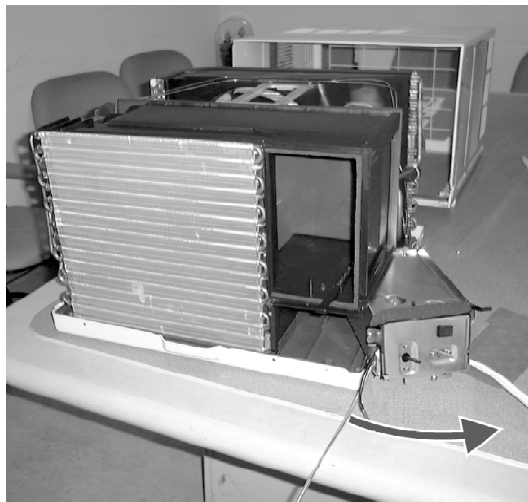
5. Remove three screws (dotted circle) and release both piping and intake air temperature sensor. Then, take out the side plate as shown below:



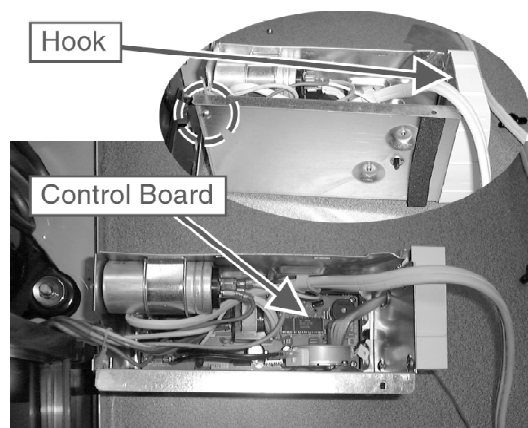
6. Hold the top part of horizontal vane and pull it out as shown in the below figure. Then, remove the shaft (dotted circle) inside the compartment.



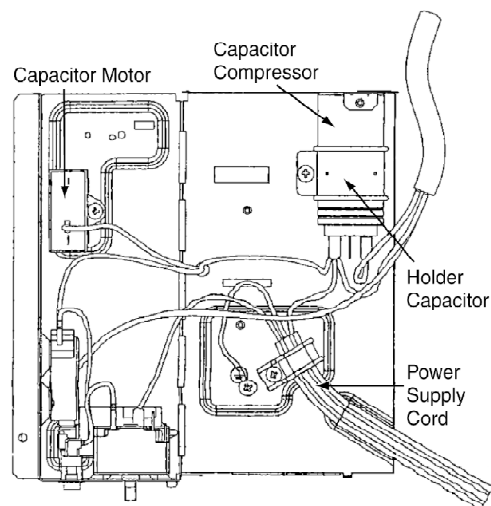
7. Pull out the control board as shown in below figure:



8. Electronic controller is inside the control board. Remove the screw (dotted circle), release the hook and the bend the side plate out the electronic controller.



- **Control Board part location.**

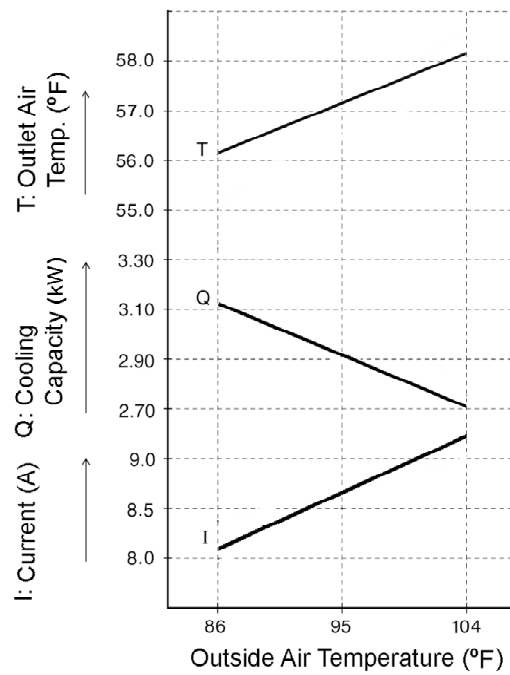


8. Technical Data

8.1. Operation Characteristics.

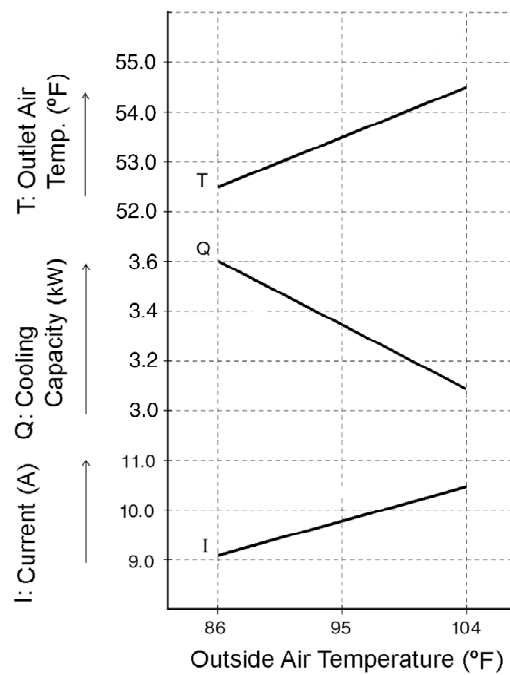
8.1.1. CW-C100VU.

- **Cooling Characteristics Vs. Outdoor Temperature.**



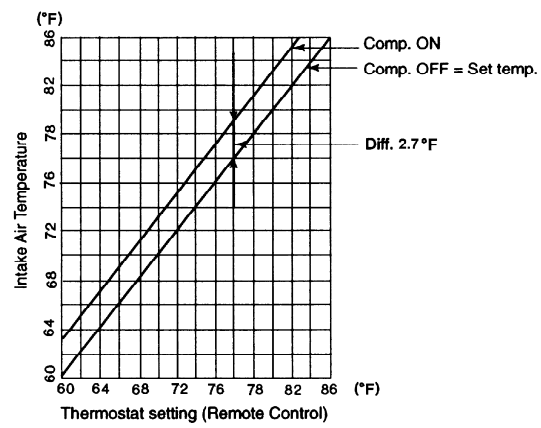
8.1.2. CW-C120VU.

- Cooling Characteristics Vs. Outdoor Temperature.



8.2. Thermostat Characteristics.

- Mechanical Thermostat.



9. Exploded View

Ref. No.	Part Name & Description	Qty.	CW-C100VU	CW-C120VU	Remarks
100	Base Pan Complete	1	CWD52K1048A	<----	
101	Bulkhead Complete	1	CWD531010	<----	
102	Air Guide - Propeller Fan	1	CWD311015	<----	
103	Bracket - Fan Motor	1	CWD541037	<----	
112	Holder - Ventilation Lever	1	CWD911024	<----	
113	Ventilation Lever	1	CWH221005	<----	
116	Connecting Bar - Air Swing Vanes	1	CWE261039	<----	
117	Vane - Air Swing	1	CWE241094	<----	
121	Propeller Fan	1	CWH001011	<----	
122	Nut - Propeller Fan	1	CWH56032	<----	
124	Holder - Capacitor (Compressor)	1	CWH30133	<----	
125	Control Board (Main)	1	CWH102138	<----	
128	Holder - Sensor	1	CWH32085	<----	
129	Drain Plug - Base Pan	1	CWH4611062	<----	
135	Air Guide - Blower Wheel	1	CWD321040	<----	
200	Compressor	1	CWB09623	CWB09624	
201	Bushing - Compressor Mount	3	CWH50055	<----	
202	Nut - Compressor Mount	3	CWH4582065	<----	
203	Gasket - Terminal Cover	1	CWH7070603U	<----	
204	Holder - Overload Protector	1	CWH7041200	<----	
205	Terminal Cover - Compressor	1	CWH7070205U	<----	
207	Nut - Terminal Cover	1	CWH7080300	<----	
210	Condenser	1	CWB32C1184	CWB32C1178	
211	Strainer	1	CWB11101	<----	
212	Capillary Tube	1	CWB152117	<----	
220	Evaporator	1	CWB30C1180	CWB30C1175	
300	Fan Motor	1	CWA951176	CWA951173	
301	Overload Protector	1	CWA121026	<----	
302	Capacitor - Fan Motor	1	CWA31371 (10 μ F, 230VAC)	<----	
303	Capacitor - Compressor	1	F0GAF406A001 (40 μ F, 250VAC)	F0GAF456A001 (45 μ F, 250VAC)	
304	Main Control Switch	1	CWA07095	<----	
306	Switch - Air Swing	1	CWA051002	<----	
308	Thermostat Room	1	CWA151023	<----	
311	Power Supply Cord	1	CWA20C671	<----	
312	Air Swing Motor	1	CWA981062	<----	
500	Front Grille Complete	1	CWE11C2541	<----	
501	Air Filter	1	CWD001062	<----	
502	Grille Door	1	CWE141048	<----	
503	Intake Grille	1	CWE221053	<----	
505	Vane	1	CWE241093	<----	
508	Control Panel	1	CWE312182	<----	
509	Knob Complete - Turning	2	CWE17C1003	<----	
600	Cabinet Complete	1	CWE00C1049	<----	
601	Top Angle	1	CWD62209A	<----	
603	Expandable Panel (Right)	1	CWH36C1011	<----	
604	Expandable Panel (Left)	1	CWH36C1012	<----	
612	Aux. Material - Installation	1	CWG86C401	<----	
702	Screw - Bracket Fan Motor	4	CWH55101	<----	
704	Screw - Bag Complete (Installation)	1	CWH82C1117	<----	
707	Screw - Front Grille Mount	1	CWH82C1118	<----	
715	Operating Instructions	1	CWF563494	<----	

- The above parts are kept for seven years in accordance with MEI service policy.
 - However, longer lead time will be taken in supplying the non-numbered parts.
 - All parts are supplied from MAICO, Malaysia (Vendor Code: 061).
 - (A): Optional part.
- [MAICO] Printed in Malaysia

Please observe these following safety precautions when using your air conditioner.

- Failure or negligence in observing these safety precautions could cause fire, electrical shock or personal injury.



This symbol (with a white background) denotes an action that is **PROHIBITED**.



These symbols (with a blue background) denote actions that are **COMPULSORY**.

INSTALLATION PRECAUTIONS



- Due to the weight of this product, we recommend that you have a helper to assist in the installation. To avoid injury, use the proper method of lifting. Avoid any sharp edges.

- Make sure the window frame to be used can properly support this product.

- This product must be installed in accordance with all local codes and ordinances.



- Do not install the unit in places where inflammable gas, fumes or soot may be generated.

OPERATION PRECAUTIONS



- Operate your air conditioner from a stable 115 volt AC supply.

- Plug into a separate 15 amp grounded outlet only.

- Use of extension cords

Avoid using extension cords. If there are no alternatives, ensure that the cord is a UL listed 3-wire grounding type, rated 125 volts with a minimum current-carrying rating of 15 amps, number 14 or heavier wire.



- Use a 15 amp time delay fuse or a circuit breaker.

- Do not switch off by unplugging the power plug while it is operating. Press the OFF/ON pad to "OFF" before unplugging.

POWER SUPPLY

Time Delay Fuse : 15 Amps
Rated Voltage : 115V



• Socket Type



• Line Cord Plug

OPERATION PRECAUTIONS



WARNING This sign warns of risk of death or serious injury.



- Do not modify the length of the power cord or use an extension cord.

- Do not touch or operate with wet hands. Do not modify or damage the cord.

- Do not turn on the unit by inserting the power plug. Do not switch off the unit by pulling out the power plug.

- Avoid an extended period of direct airflow.

- Do not insert sticks, fingers or other objects into the unit.

- Do not try to repair the unit yourself.



- Plug in properly before operating and use a specified power cord.

- If abnormal conditions (burnt smell, etc) occur, switch off and remove the power plug.



CAUTION This sign warns of injury or damage to property.



- Do not use the unit for other purposes, than its intended use.

- Do not remove the power plug by pulling the cord.

- Do not block the air intake and outlet vanes.

- Do not splash or direct water at the unit.

- Do not expose the unit to direct sunlight during operation.

- Do not operate the unit without the air filter installed or when the front intake grille has been removed.

- Do not place any objects on the unit.

- Do not operate any combustion equipment near the unit's airflow area.



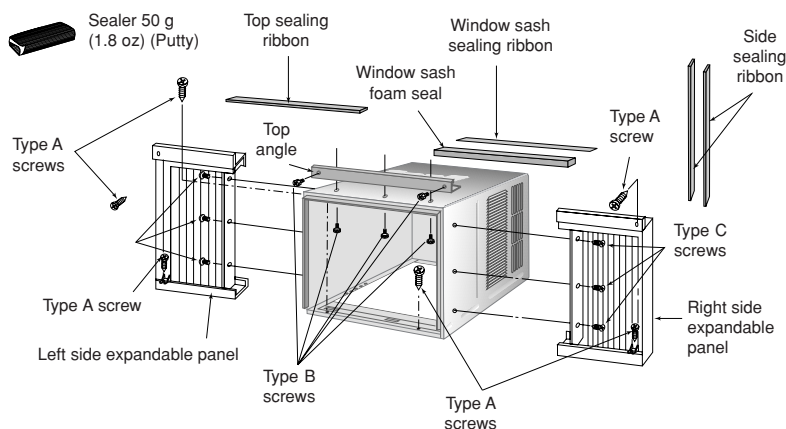
- Switch off the breaker and remove the power plug from the socket if the unit will not be operated for a long period.

- Pay attention to any damages on the unit caused by extensive usage.

- Ventilate the room occasionally where the unit is installed.

- Remove the power plug when cleaning the unit.

INSTALLATION BOX CONTENTS



SCREW FURNISHED

Type A
(Qty 6)



Wood
Screw

Type B
(Qty 5)



Machine
Screw

Type C
(Qty 6)



Tapping
Screw

SUGGESTED TOOL LIST



Medium sized
screwdriver (#2
Phillips)



Tape Measure



Pencil

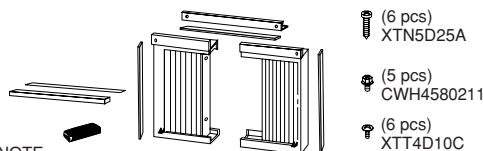


Level



Knife or
Scissor

ACCESSORIES

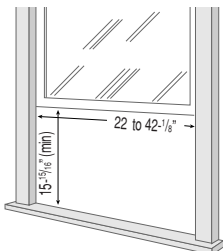


NOTE

Check that none of the accessories are missing.

WINDOW REQUIREMENTS

- Hot sun rays hitting the outside surface of the cabinet will create considerable heat load. If the outside of the cabinet is exposed to direct sunlight, consider building an awning to shade the cabinet while providing ample area for the heated air to be exhausted from the condenser (both sides) and the top.



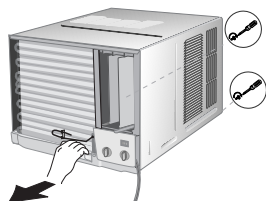
This unit is designed for installation in standard double hung windows.

NOTE

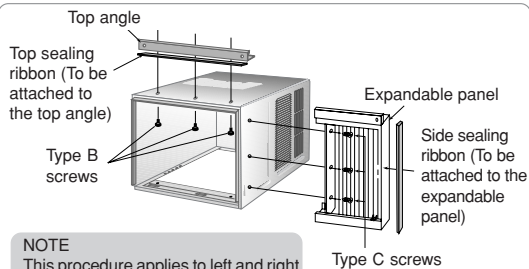
The unit may also be installed "through the wall". You should, however, observe standard carpentry practices and frame the opening without violating local ordinances.

INSTALLATION PROCEDURES

- Remove the rear cabinet screws and save for later use.
- Slide the chassis out from the cabinet.



HOW TO ASSEMBLE THE EXPANDABLE PANELS

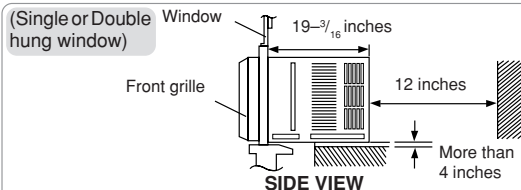


NOTE

This procedure applies to left and right of assembling expandable panel.

- Attach the top angle to the cabinet using screw type B (3 pcs).
- Insert expandable panels to cabinet sides as shown.
- Secure the first fold of expansion panel to cabinet using screw type C (3 each).

SELECT THE BEST LOCATION

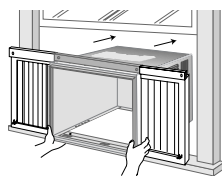


CABINET INSTALLATION

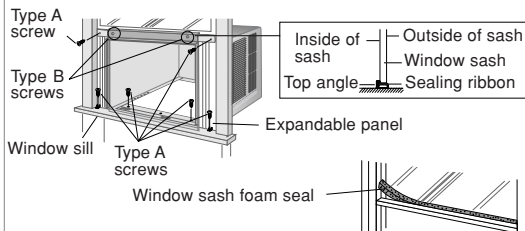
- Cut the "Sealing Ribbon" to the proper length, and attach it along the bottom edge of the bottom window sash.



- To prevent condensation water from dripping inside, the cabinet should be installed level or very slightly tilted to the outside.



- Secure the cabinet using screws.



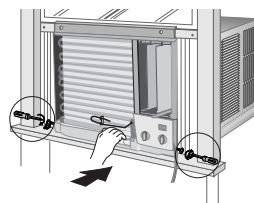
- Expand the expandable panel fully into the grooves of the window frame, secure the expandable panel, left, right and top mounting frames to the bottom of the window sash using 4 screws type A and 2 screws type B.
- Secure the cabinet using wood screws type A.
- Cut the window sash foam seal to the proper size and seal the opening between the top of the inside window sash and the outside window sash.

NOTE

If a gap exists between the unit and window sash, you may use "Sealer" supplied with the installation kit for a better seal.

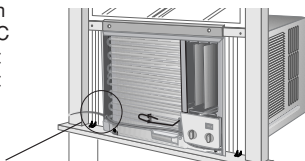
CHASSIS INSTALLATION INTO THE CABINET

- Slide the chassis into the cabinet.
- Reinstall the cabinet screws. Secure the cabinet to chassis by using screws (from rear cabinet).



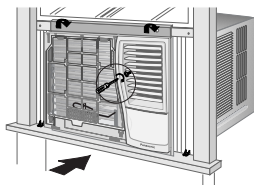
INSTALLATION OF THE FRONT GRILLE

Depending upon the location of the AC outlet, route the AC cord to either the left or right side while installing the front grille.



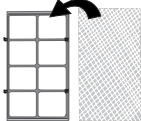
This figure shows the AC cord routed to the left side.

- ① Place the front grille on the cabinet first.
- ② Secure the front grille to the main chassis using screw provided.

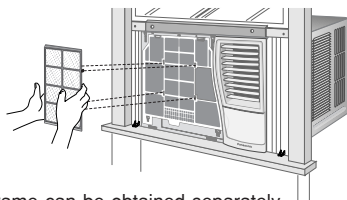


INSERT THE filter (OPTIONAL)

Attach the  filter (part no. CZ-SF6P) to the frame.



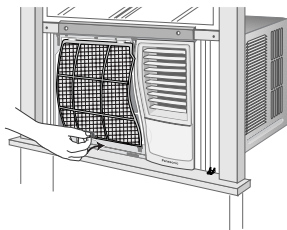
Slot in the  filter and the frame (part no. CZ-SFW6P) to the front grille.



The  filter and the frame can be obtained separately from your nearest servicer.

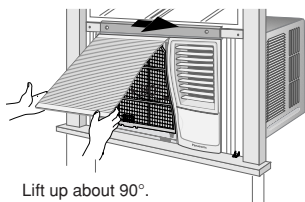
INSERT THE AIR FILTER

Attach the air filter to the intake grille.



PLACE FRONT INTAKE GRILLE OVER THE FRONT GRILLE

Slide the front intake grille slightly to the right to reattach the tabs and then push it down to close tight.

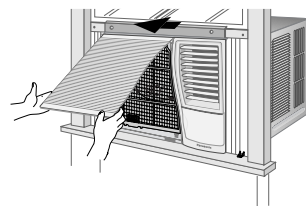


Lift up about 90°.

REMOVAL OF FRONT GRILLE

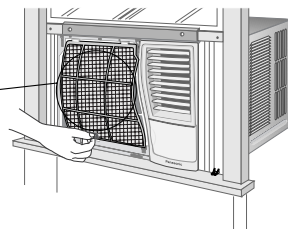
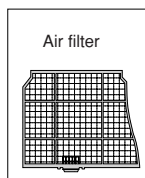
- ① Remove the front intake grille.

Pull up the front intake grille about 90° and slide it slightly to the left to unhook the tabs.



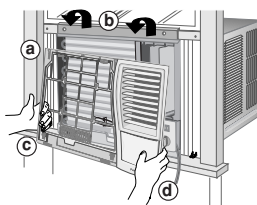
- ② Remove the air filter.

Tilt up and pull out the air filter by the holder.



- ③ Remove the front grille.

- a Remove the adhesive tape from all sides of the front grille.
- b At bottom right side of the front grille, press inward on cabinet near the power cord, and pull the grille outward to the right until right tab releases.
- c At the bottom left side, push inward on cabinet and pull the grille outward to the left to release the left tab. Do not pull the bottom edge toward you more than 3 inches to prevent the two top tabs from damage.
- d Slide the front grille upwards to free the two top tabs from slots at the top of the cabinet.



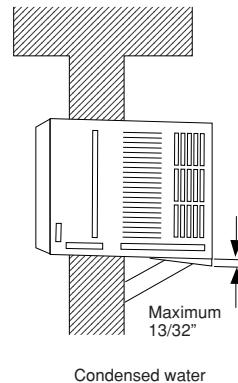
HOW TO ATTACH THE DRAIN PAN (OPTIONAL)

Condensed water drainage

This air conditioner employs a "Slinger-Up System" which is designed to splash the condensed water on the condenser coil for maximum cooling efficiency, thus producing a splashing sound. If the splashing sound annoys you, you can provide an outside drainage by using the following procedure which may, however, cause a small loss of performance.

NOTE

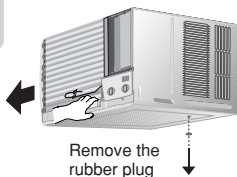
The cabinet should be installed tilted slightly lower to the rear for necessary condensate drainage. (Max. 13/32")



Condensed water

HOW TO ATTACH THE DRAIN PAN (OPTIONAL)

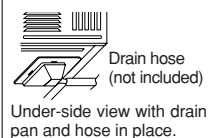
- 1 Remove the rubber plug and slide the chassis out from the cabinet.



- 3 Connect a drain hose (optional).
Fit the drain hose to the drain pan.

NOTE
Drain hose or tubing can be purchased locally to satisfy your particular needs.

EXTERNAL VIEW



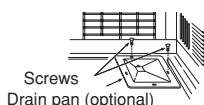
- 2 Install the optional drain pan (part no. CWH40175).

Install the drain pan at the right corner of the cabinet using 2 screws (part no. CWG86C733).

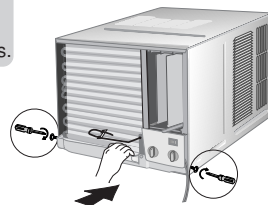
NOTE

The drain pan (part no. CWH40175) can be obtained from nearest servicenter.

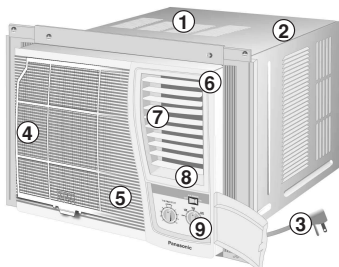
INTERNAL VIEW



- 4 Slide the chassis back into the cabinet.
Reinstall the cabinet to chassis by using screws.



MAIN UNIT



- 1 Air inlet louver
- 2 Cabinet
- 3 Power cord
- 4 Air filter
- 5 Front intake grille
- 6 Front grille
- 7 Vertical airflow direction vane (Airflow direction adjustment up-down).
The vertical airflow direction vane is controlled by rotating the horizontal vane forward or backward.



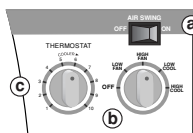
- 8 Ventilation lever



CLOSE VENT OPEN

The ventilation lever must be in the CLOSE position in order to maintain the best cooling conditions. When fresh air is necessary in the room, set the ventilation lever to the OPEN position. The damper is opened and room air is drawn out.

- 9 Main control panel



- a Air Swing Switch

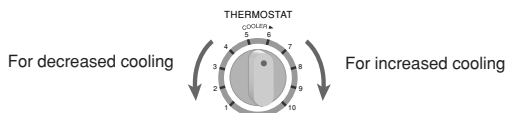
OFF Stops the operation of Air Swing.
ON Air Swing is in operation.
(Only for LOW COOL, MED COOL, HIGH COOL and ECONOMY operation.)



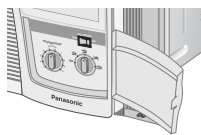
- b Main Control Knob

High fan speed operation (without cooling)
Low fan speed operation (without cooling) Low fan speed with cooling operation
Stops all operation **OFF** High fan speed with cooling operation

- c Thermostat Control Knob

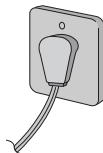


① Open the control panel cover.



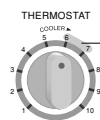
② Power Supply.

Switch off the breaker and set the main control knob to the OFF position; confirm that the power supply cord is connected to a proper AC outlet. < 115V, 60Hz >



③ Thermostat Control Knob.

NOTE : Recommended setting



- For a room that is too warm, set the control knob to a clockwise direction.
- If the room is too cool, set the control knob to a counter clockwise direction.

* Note : Usually 6~7 is the recommended setting position.

④ Air Swing Switch.

(Airflow direction adjustment Side-to-Side)

To obtain a fix airflow direction, set the air swing switch to "ON" for the vanes to swing from side to side until the desired flow direction is reached, then switch it to "OFF".

For continuous side-to-side air circulation, set the air swing switch to "ON".



Model			CW-C100VU	CW-C120VU
COOLING CAPACITY		Btu/h	10,000	11,500
ELECTRICAL RATING	Phase		Single	←
	Frequency	(Hz)	60	←
	Voltage	(V)	115	←
	Current	(Amps)	8.7	9.8
	Input	(W)	980	1120
EER		(Btu/W.h)	10.2	←
MOISTURE REMOVAL		(Pints/h)	2.5	3.0
ROOM AIR CIRCULATION		(Cf/min)	320	330
DIMENSIONS	Height	cm (inches)	37.5 (14 ⁻²⁵ / ₃₂ "	←
	Width	cm (inches)	56 (22 ⁻¹ / ₁₆ "	←
	Depth	cm (inches)	60.6 (23 ⁻²⁷ / ₃₂ "	←
NET WEIGHT		kg (lb)	35 (77)	←
GROSS WEIGHT		kg (lb)	39 (86)	←
NOISE LEVEL	Indoor (Hi/Lo)	dB (A)	50/46	51/47
	Outdoor (Hi/Lo)	dB (A)	57/54	58/55

* Specifications are subject to change without notice for further improvement.

ENERGY SAVING HINTS



- This may affect your well-being as well as increase power consumption.
- The cooling capacity of the room air conditioner must match the room size for efficient and satisfactory operation.
- Prevent hot air from entering and cool air from escaping.
- Ensure that curtains and drapes are always closed to keep out direct sunlight during cooling operation. Avoid heat.
- Clean the air filter every 2 weeks. Dirty filters may reduce cooling efficiency.

CARE AND MAINTENANCE**CAUTION**

Always turn off the air conditioner and the main power supply before clean the unit.
Switch off the power supply if the unit is not going to be used for a long period of time.



- Clean the cabinet, front grille with a mild soap or detergent and lukewarm water.
- The front intake grille can be easily removed for cleaning purposes. Gently wash it with water and a sponge.
- The filter can be easily cleaned using a vacuum cleaner. Vacuum the front of the filter and then wash the rear with water. If it is badly soiled, wash with a mild household detergent.
It is recommended to replace the  filter (part no.CZ-SF6P) every 3 months.
- Do not clean with benzene, thinner, scouring powder or cloth soaked in caustic chemicals.
- If the unit is extremely dirty, heat transfer is less efficient and the unit may not cool effectively. Contact your nearest servicenter for an annual check.
- If the air filter becomes clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

NOTE

Do not dry the front panel or the air filter in direct sunlight. (Exposure to direct sunlight may discolor or deform the panel.)

PRE-SEASON INSPECTION

- *Is the discharged air cold?*
After 15 minutes of operation, it is normal for the temperature difference between intake and outlet air to be more than 14.4°F for cooling.
- *Are the air intake and outlet vanes of the indoor and outdoor side obstructed?*

**RECOMMENDED INSPECTION**

- Usage over several seasons will reduce performance as the unit becomes dirty.
A dirty unit may produce foul odors and dust may clog the dehumidifying drainage.
Seasonal inspection is recommended in addition to regular cleaning. Consult your nearest servicenter.

BEFORE

Check the following points before calling for repairs or service. If the malfunction persists, please contact your nearest servicenter. For assistance, please call: 1-800-211-PANA (7262) or send e-mail to: consumerproducts@panasonic.com

POSSIBLE CAUSES OF THE ABOVE PROBLEMS

Condition ① If the unit is too noisy during operation.

The following sounds are normal during operation:

- A low humming sound indicating that the unit is operating.
- A soft clicking sound when the compressor turns on and off.
- A flowing sound due to circulation of the refrigerant when the compressor is turned on.
- A splashing sound indicating condensation in the condenser coil.

If you hear other noises, please consult your nearest servicenter.

Condition ② If the unit does not operate.

- The main power cord is not plugged in.
- The internal fuse has blown.
- The main circuit breaker has tripped.

Condition ③ If the unit does not cool properly.

- The room is too big for the unit's cooling capacity.
- The ventilation lever is set to OPEN.
- The air circulation is impeded by curtains or furniture.
- After 15 minutes of operation, it is normal for the temperature difference between intake and outlet air to be more than 14.4°F for cooling.

Condition ④ If water drips off the rear of the unit.

- Humidity is high.
- Condensed water is overflowing.
- To rectify the problem, mount a drain pan to the unit.

Condition ⑤ If water drips inside the room.

- The unit is tilted inward. To rectify this, tilt the unit slightly outward.
- Mount the optional drain pan if you prefer.
- The drain pan may be blocked.

If the trouble persists after you have checked all of these, call your authorized Panasonic dealer or servicenter.
Service information can be obtained 24 hours/day by calling: 1-800-211-PANA (7262)

To expedite the repair of your air conditioner:

- Please have your proof of purchase.
- List all symptoms the unit is exhibiting.